

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P646712

Luminaire Tested: **GALN-SA1C-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4154.6 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

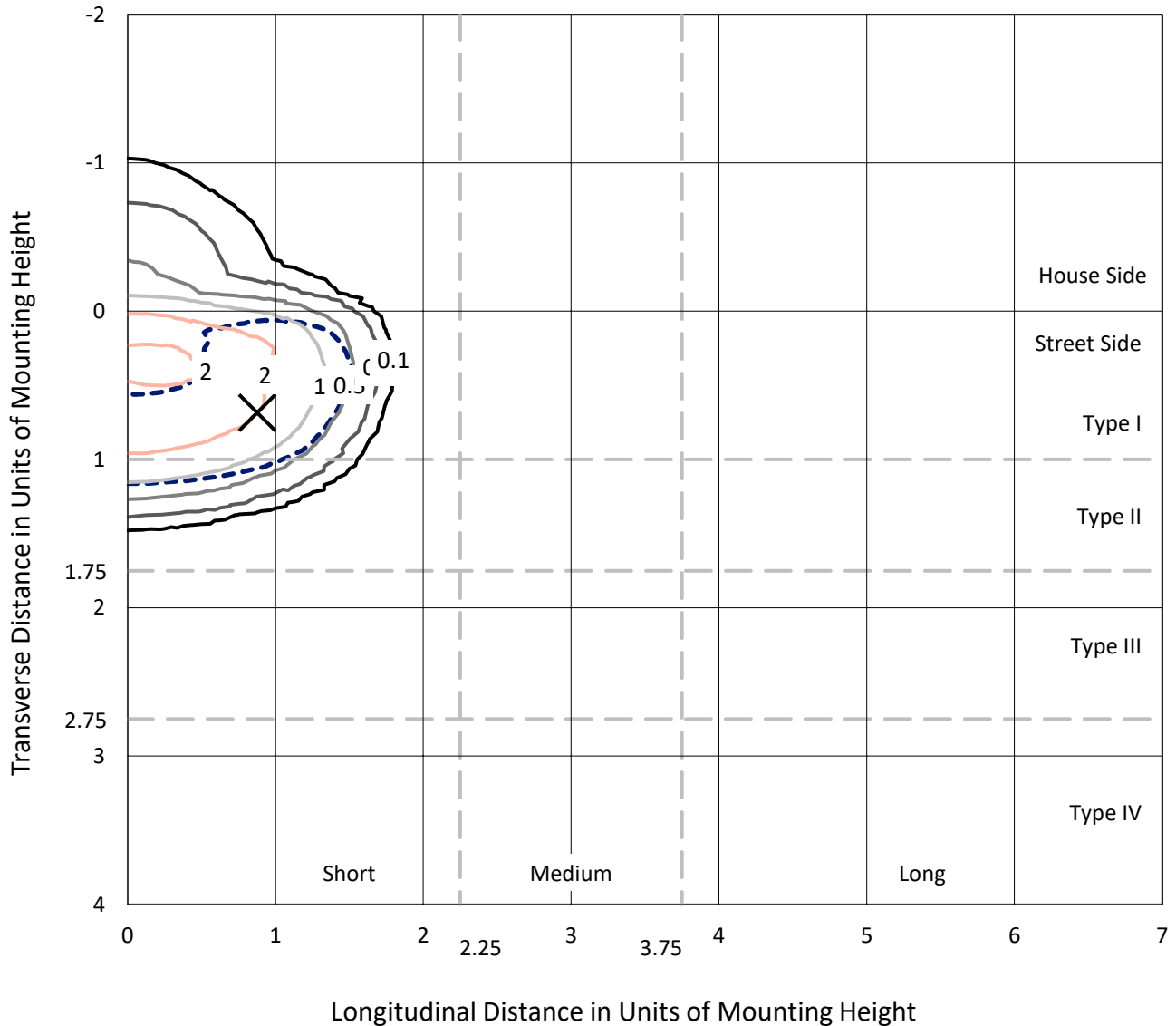
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

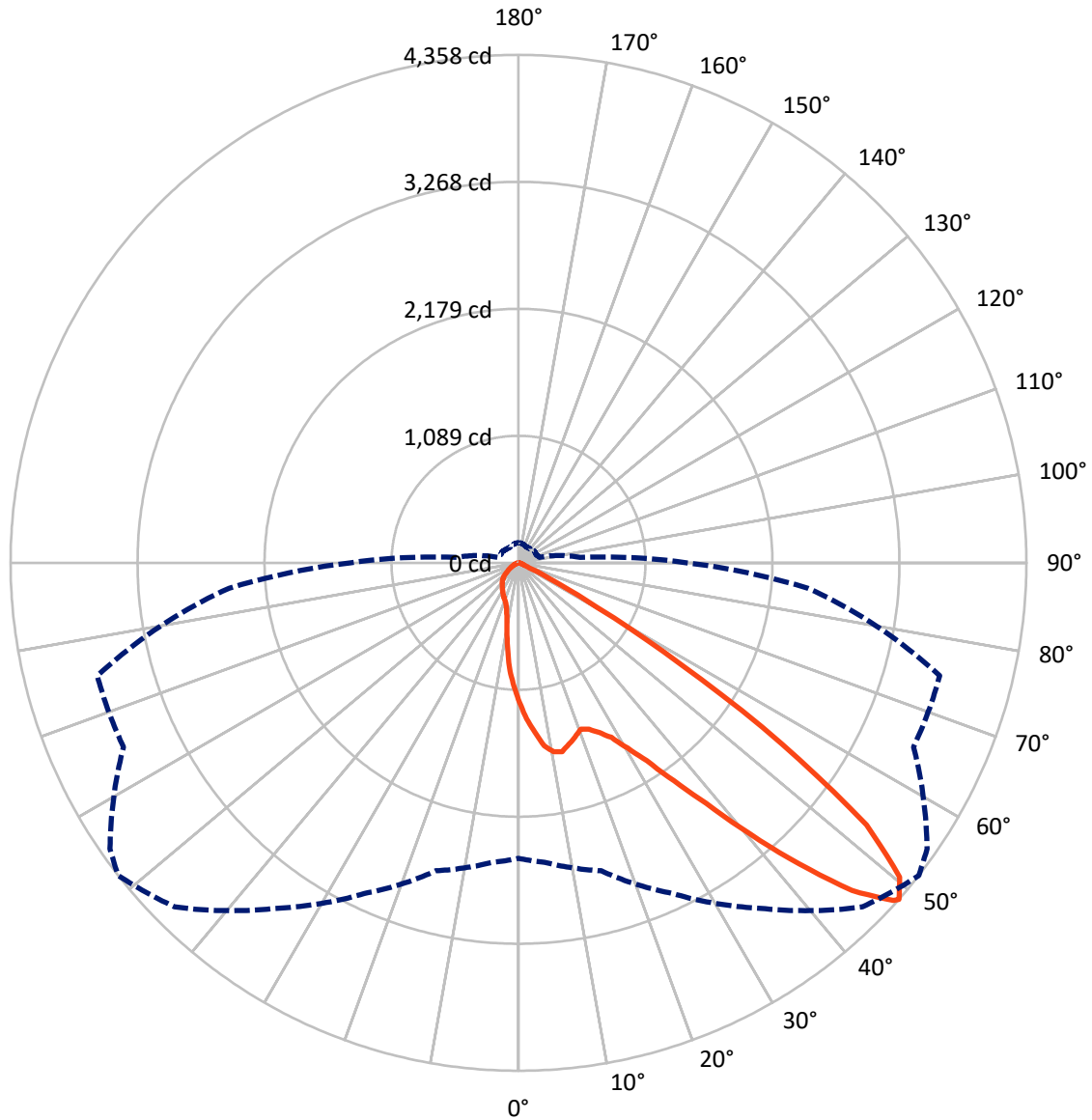
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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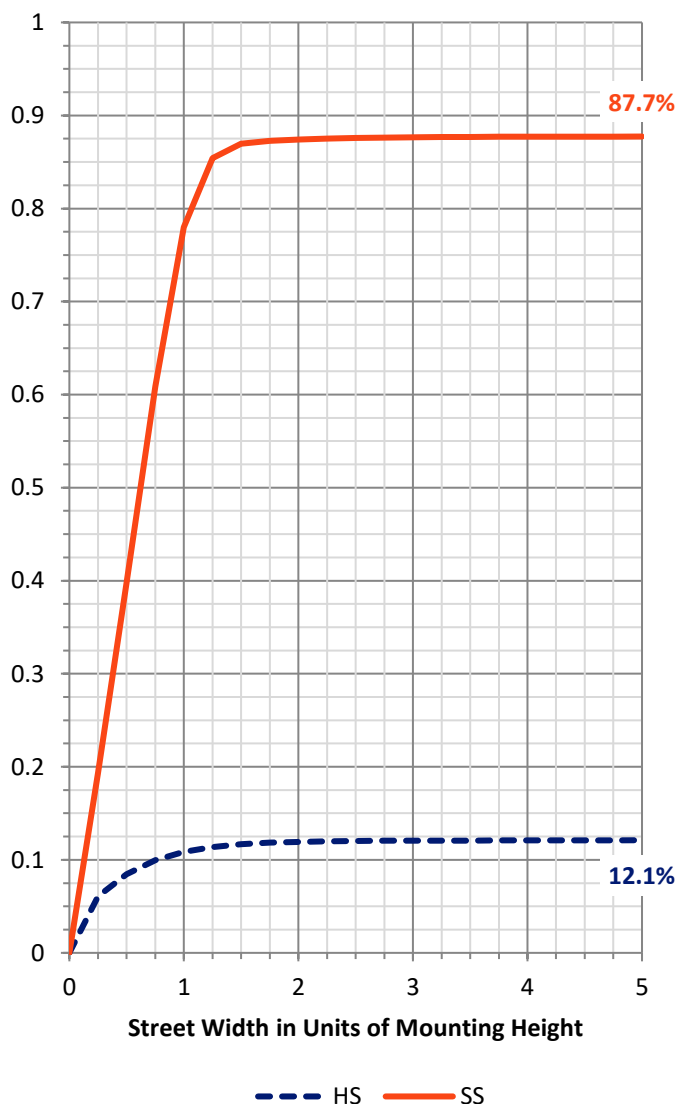
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	505.8	0.0	505.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3648.7	0.0	3648.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	4154.6	0.0	4154.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	2.6
10°-20°	287.0	6.9
20°-30°	490.0	11.8
30°-40°	902.3	21.7
40°-50°	1401.3	33.7
50°-60°	843.4	20.3
60°-70°	97.5	2.3
70°-80°	18.9	0.5
80°-90°	4.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4154.6	100.0
0°-180°	4154.6	100.0

Coefficient of Utilization

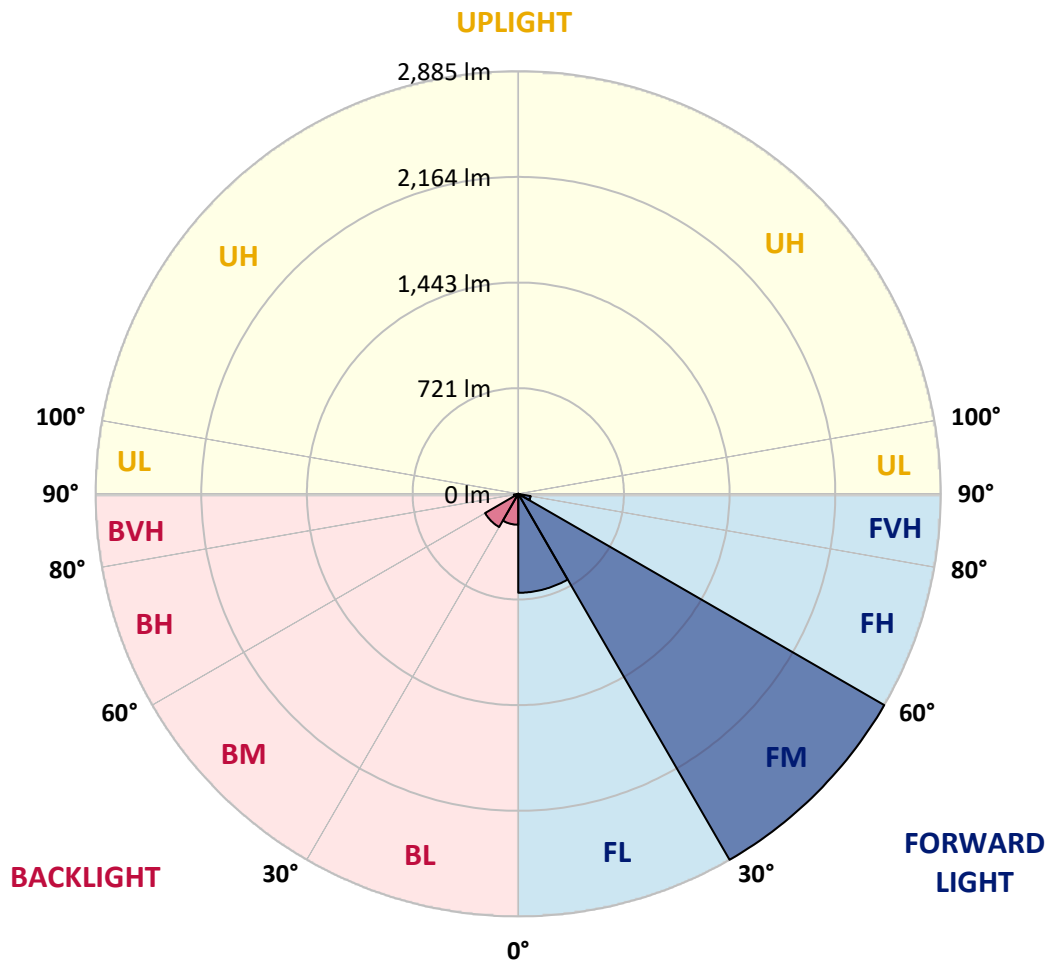


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.5	16.3			
FM (30°-60°)	2885.3	69.4			
FH (60°-80°)	85.9	2.1			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	211.3	5.1	B1/500		
BM (30°-60°)	261.7	6.3	B1/1000		
BH (60°-80°)	30.5	0.7	B0/110		G0/110
BVH (80°-90°)	2.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8
2.5°	1454.2	1420.8	1423.9	1402.0	1389.4	1368.8	1340.9	1335.4	1305.2	1264.0	1222.2
5°	1584.9	1577.1	1587.4	1555.9	1557.1	1523.2	1457.8	1459.0	1389.4	1322.1	1257.3
7.5°	1593.5	1575.2	1585.6	1613.4	1629.8	1623.7	1586.7	1554.7	1488.6	1390.0	1295.5
10°	1426.9	1461.4	1472.4	1518.3	1583.8	1652.8	1648.5	1650.4	1595.3	1466.2	1328.2
12.5°	1327.0	1303.9	1340.9	1368.8	1467.5	1601.3	1662.5	1675.8	1680.1	1540.2	1360.9
15°	1281.5	1281.5	1287.6	1295.5	1367.0	1490.5	1615.3	1654.0	1745.5	1637.0	1412.4
17.5°	1310.0	1308.8	1317.2	1301.0	1327.6	1422.6	1571.6	1615.9	1818.8	1732.2	1452.9
20°	1396.6	1400.9	1395.4	1348.2	1350.0	1421.5	1523.2	1592.9	1868.4	1814.5	1506.8
22.5°	1517.1	1519.6	1488.6	1437.2	1422.1	1457.2	1551.0	1604.4	1908.4	1913.3	1523.2
25°	1656.4	1646.7	1640.7	1568.0	1522.0	1552.3	1614.1	1644.9	1933.2	1998.0	1569.8
27.5°	1849.6	1830.3	1793.3	1728.5	1694.6	1651.6	1695.8	1746.6	2004.1	2116.7	1620.7
30°	2134.9	2117.9	2045.9	1962.3	1873.2	1830.9	1844.8	1872.6	2131.9	2254.2	1687.9
32.5°	2564.3	2528.5	2424.4	2265.1	2144.0	2027.1	2023.4	2053.1	2246.3	2444.4	1767.9
35°	3037.3	3026.4	2873.1	2709.0	2474.7	2294.2	2297.2	2313.0	2465.6	2693.9	1872.6
37.5°	3351.6	3411.6	3314.0	3137.9	2941.0	2683.0	2617.6	2623.0	2766.6	2989.4	2061.6
40°	3594.5	3543.6	3555.1	3513.9	3379.5	3203.9	3059.1	3030.6	3114.9	3316.5	2249.3
42.5°	3488.5	3490.9	3561.8	3659.3	3692.6	3679.9	3532.1	3478.2	3412.8	3584.2	2428.0
45°	3189.3	3251.7	3343.7	3601.7	3828.2	4040.8	4011.8	3922.1	3618.7	3796.1	2531.0
47.5°	2712.1	2709.6	2860.5	3196.0	3699.3	4197.1	4329.1	4266.2	3764.7	3772.6	2509.7
48°	2535.8	2579.4	2735.1	3130.0	3617.5	4174.1	4357.6	4278.2	3739.8	3741.1	2491.6
50°	1874.5	1866.6	2060.4	2544.9	3231.1	3922.1	4237.7	4299.5	3739.2	3581.8	2364.4
52.5°	990.3	1024.2	1165.3	1600.1	2284.5	3209.9	3738.0	3834.4	3607.2	3321.3	2181.5
55°	420.9	380.4	488.7	722.6	1285.1	2144.6	2742.4	2956.8	3050.0	2939.1	1908.4
57.5°	150.2	164.1	188.9	271.9	540.3	1173.7	1635.2	1801.8	2113.1	2156.7	1300.3
60°	96.3	98.1	106.0	124.7	202.9	452.4	775.8	908.4	1049.6	1083.5	606.8
62.5°	74.5	75.1	78.8	81.7	96.3	175.6	291.3	345.2	358.5	308.3	159.3
65°	62.4	63.0	64.2	64.2	68.4	82.4	101.7	112.0	109.0	107.8	90.3
67.5°	47.8	49.1	51.4	51.4	53.9	50.3	56.3	60.0	67.8	82.4	76.9
70°	37.6	38.1	40.0	41.2	41.2	36.3	40.6	44.2	49.6	61.2	60.5
72.5°	29.0	30.3	31.5	31.5	29.7	24.8	29.0	32.1	35.7	42.4	41.2
75°	22.4	22.4	23.0	18.8	14.6	12.7	17.5	21.2	26.6	27.9	23.0
77.5°	6.0	6.7	6.0	5.5	6.0	9.1	11.5	13.3	17.0	17.0	15.1
80°	0.0	0.6	1.8	3.6	6.0	8.5	10.3	11.5	13.3	14.6	13.9
82.5°	0.0	0.6	1.8	3.6	5.5	6.7	9.1	9.7	10.9	12.7	12.7
85°	0.0	0.6	1.2	2.4	3.6	4.2	4.2	3.6	3.6	3.1	2.4
87.5°	0.0	0.0	0.6	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8	1199.8
2.5°	1205.8	1187.0	1158.6	1113.7	1070.8	1043.0	1016.3	986.6	970.2	969.0	960.0
5°	1220.4	1177.9	1110.1	1033.2	950.9	880.0	808.5	761.9	720.1	697.1	692.9
7.5°	1228.2	1173.2	1063.5	934.5	794.0	678.3	598.4	539.6	516.6	499.6	499.1
10°	1244.6	1164.6	993.9	803.7	629.8	512.9	457.9	431.2	418.5	413.7	406.4
12.5°	1256.7	1148.9	922.4	669.2	497.8	425.2	401.0	394.9	395.5	397.9	394.9
15°	1273.7	1135.0	826.1	549.4	417.9	382.7	382.7	384.0	392.4	393.7	393.1
17.5°	1272.5	1107.7	726.8	452.4	369.4	364.6	366.4	378.0	383.4	385.2	380.9
20°	1287.0	1082.3	624.4	386.4	342.2	349.5	361.6	364.6	371.2	372.5	367.6
22.5°	1282.8	1018.7	529.3	334.3	321.6	335.5	347.7	351.3	349.5	345.9	345.2
25°	1274.9	964.2	442.1	299.8	306.5	321.6	333.1	326.4	322.8	323.4	324.0
27.5°	1260.9	895.1	370.0	275.5	285.9	308.3	307.6	305.2	308.9	305.8	308.9
30°	1258.5	826.1	310.7	253.8	270.8	287.0	288.3	292.5	296.8	291.3	296.8
32.5°	1262.2	750.4	268.3	240.5	261.6	262.2	275.5	279.8	276.8	264.7	265.9
35°	1290.0	692.3	237.4	233.2	247.1	247.7	260.4	254.9	241.6	234.4	238.7
37.5°	1348.8	643.8	222.8	226.5	227.7	235.6	236.2	225.3	226.5	225.9	228.3
40°	1423.9	606.8	212.6	220.5	219.2	224.7	202.9	209.0	214.4	216.2	217.4
42.5°	1475.3	580.2	205.9	210.8	208.4	198.6	186.5	192.6	196.8	203.5	204.7
45°	1498.3	559.0	198.0	193.8	193.8	176.3	171.4	172.6	182.3	189.6	188.4
47.5°	1460.8	538.4	184.1	171.4	175.6	161.1	155.7	155.7	165.9	175.0	173.2
48°	1446.3	529.9	184.7	166.5	169.6	158.7	153.2	152.0	163.5	172.0	172.0
50°	1374.2	498.5	169.0	153.2	147.2	146.0	142.3	143.5	150.8	158.7	158.7
52.5°	1233.7	430.6	142.9	131.4	120.5	127.8	129.6	127.2	130.8	138.1	137.5
55°	1029.6	330.7	114.5	109.0	100.5	108.4	112.0	109.0	105.4	110.8	110.8
57.5°	659.5	178.1	91.5	92.6	84.2	92.1	95.1	87.9	81.1	85.4	84.8
60°	297.4	106.6	75.1	73.3	67.8	76.9	81.7	73.3	64.2	67.3	70.2
62.5°	111.4	75.7	56.9	55.7	54.5	63.0	65.4	58.7	49.6	51.4	52.1
65°	81.7	66.6	45.4	41.2	43.6	49.6	48.5	41.8	35.7	35.7	37.0
67.5°	69.7	58.2	37.0	32.1	32.1	32.7	30.3	26.6	24.8	26.1	27.2
70°	54.5	46.0	29.0	24.8	22.4	20.0	17.5	17.0	15.1	17.0	16.4
72.5°	35.2	30.9	22.4	18.8	17.0	13.9	11.5	10.9	9.1	8.5	8.5
75°	18.8	18.8	17.5	15.1	13.3	10.9	9.1	7.3	4.9	3.6	3.6
77.5°	13.3	14.6	15.7	14.6	12.1	9.1	7.3	4.9	2.4	1.2	1.2
80°	12.7	14.6	15.7	13.9	12.1	9.1	6.7	3.6	1.8	0.6	0.6
82.5°	11.5	13.3	14.6	12.7	10.9	7.9	6.0	3.6	1.8	0.6	0.6
85°	2.4	3.1	3.6	3.6	4.2	5.5	4.2	3.1	1.2	0.6	0.6
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)